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DB=USPT; $PLUR=NO$; $OP=ADJ$			
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	L7	US-6007740-A.did.	1
	L6	US-6007740-A.did.	1
DB=USPT, $EPAB$, $JPAB$, $DWPI$, $TDBD$; $PLUR=NO$; $OP=ADJ$			
	L5	jp-10204016-\$.did.	2
	L4	jp-09204016-\$.did. or jp-1009204016-\$.did. or jp-08204016-\$.did.	. 4
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L5: Entry 1 of 2

File: JPAB

Aug 4, 1998

PUB-NO: JP410204016A

DOCUMENT-IDENTIFIER: JP 10204016 A

TITLE: POLYHALOALKYLETHER DERIVATIVE, LIQUID CRYSTAL COMPOSITION CONTAINING THE

SAME AND LIQUID CRYSTAL DISPLAY ELEMENT

PUBN-DATE: August 4, 1998

INVENTOR-INFORMATION:

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INT-CL (IPC): $\underline{\text{C07}}$ $\underline{\text{C}}$ $\underline{\text{43/192}}$; $\underline{\text{C07}}$ $\underline{\text{C}}$ $\underline{\text{43/225}}$; $\underline{\text{C07}}$ $\underline{\text{C}}$ $\underline{\text{69/75}}$; $\underline{\text{C07}}$ $\underline{\text{C}}$ $\underline{\text{69/773}}$; $\underline{\text{C07}}$ $\underline{\text{C}}$ $\underline{\text{255/54}}$; $\underline{\text{C07}}$ $\underline{\text{D}}$ $\underline{\text{239/26}}$; $\underline{\text{C09}}$ $\underline{\text{K}}$ $\underline{\text{19/90}}$; $\underline{\text{C09}}$ $\underline{\text{K}}$ $\underline{\text{19/14}}$; $\underline{\text{C09}}$ $\underline{\text{K}}$ $\underline{\text{19/20}}$; $\underline{\text{C09}}$ $\underline{\text{K}}$ $\underline{\text{19/30}}$; $\underline{\text{C09}}$ $\underline{\text{K}}$ $\underline{\text{19/34}}$; $\underline{\text{C09}}$ $\underline{\text{K}}$ $\underline{\text{19/42}}$; $\underline{\text{G02}}$ $\underline{\text{F}}$ $\underline{\text{1/13}}$

ABSTRACT:

PROBLEM TO BE SOLVED: To obtain the subject new compound having a wide liquid crystalline phase temperature range and a low viscosity, exhibiting a low threshold voltage and a high stability, and useful as a liquid crystalline compound excellent in miscibility with another liquid crystalline compound.

SOLUTION: This compound is expressed by the formula [R1 is a (substituted) 1-20C alkyl, etc.; Y1 is a halogen, CN, CF3, etc.; Z1 to Z3 are each a covalent bond, CH2CH2, CH=CH, etc.; rings A1 to A4 are each trans-1,4-cyclohexylene, 3-cyclohexen-1,4-ylene, etc.], e.g. 3-fluoro-4-(1,1,2,2-tetrafluoroethoxy)phenyl=4-(trans-4-propylcyclohexyl)b enzoate. The compound is obtained by reacting a phenolic derivative with a carboxylic acid derivative in a solvent such as dichloromethane or chloroform in the presence of a dehydrating agent such as dicyclohexylcarbodiimide and 4-dimethylaminopyridine.

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